

EXHIBIT 1



Curriculum Vitae

JAMES ROBERT BENYA, PE, FIES, FIALD

Principal, the Benya Burnett Consultancy

Winner of the 2008 Edison Award

"At the leading edge of light" Metropolis, 1999

"One of the top lighting designers in the US", Departures by American Express, 1999

"Top 25 Retail Lighting Designers in US", Display and Design Ideas, 2002

"Hot designer", SNAP Magazine, 2011

"Jim has been at the forefront from the start, specializing in integrated daylighting strategies and sustainable lighting approaches long before most designers knew what that was," Architectural Lighting, 2011

Inaugural member of the Michigan Lighting Hall of Fame, 2013

Jim Benya is a professional illuminating engineer, lighting designer, educator and consultant with 40 years of experience. He is a Registered Professional Electrical Engineer, Fellow of the Illuminating Engineering Society of North America (FIES), and Fellow of the International Association of Lighting Designers (IALD). A member of the legendary Smith Hinchman & Grylls Lighting Group, he established and led California's seminal lighting design firm Luminæ Souter Lighting Design as Principal and CEO before starting Benya Lighting Design in 1994 in Portland, Oregon. His design work has been published in every major lighting design and architectural journal, including Architecture, Architectural Record, Architectural Lighting, Progressive Architecture, LD&A, Lighting Dimensions, Interiors, Interior Design, Designers West, Northern California Home and Garden, Architectural Digest, and Building Design and Construction. He has won numerous lighting design awards, including the Edison Award, the Edison Award of Excellence (7 times), the Edison Award for Environmental Design (thrice), the International Illumination Design Award of Excellence, and the Source Awards First Place Award. He is the author of **Lighting Design Basics** (Wiley 2012) and **Lighting Retrofits and Relighting** (Wiley 2011) and his work is featured in nine books, including the Best of Lighting Design. In 2012 he returned to northern California to begin the Benya Burnett Consultancy with partner Deborah Burnett in Davis, California and to work extensively with the California Energy Commission and Southern California Edison.

PROFESSIONAL DESIGN AND ENGINEERING HISTORY

Principal, the Benya Burnett Consultancy	2012-present
Principal, Benya Lighting Design, West Linn, OR	1994-2013
Principal, Pacific Lightworks, Portland, OR	1996-1998
Principal, Luminæ Souter Lighting Design, San Francisco	1983-1994
Associate and Chief Electrical Engineer, the Smith Group, Detroit	1980-1983
Electrical Engineer and Project Manager, the Smith Group, Detroit	1973-1980

EDUCATIONAL HISTORY

BSE, University of Michigan, Electrical Engineering	1973
BS, University of Michigan. Computer Science	1973
Graduate work in Computer Science, University of Michigan	1973
Professional Development Work in Building Energy Systems, Iowa State	1978
Professional Development Work in Daylighting, Harvard Graduate School	2009

ACADEMIC TEACHING HISTORY

Adjunct Professor of Architecture, Lawrence Technological University	1974-1978
Adjunct Professor of Architecture, Wayne State University	1979
Adjunct Professor of Design, University of Michigan	1980-1983
Adjunct Professor of Architecture, University of California at Berkeley	1984-1985
Adjunct Professor of Architecture, California College of Art	1986-1995
Artist in Residence, University of Nebraska School of Architecture	1998
Adjunct Professor of Interior Design, Marylhurst University	2002
Guest Lecturer, Oregon State University Interior Design Lighting Class	1999-2010
Special studio in Daylighting, Daylectric Lighting, Ball State University	2007-2009
Director of the Advanced Lighting Design Program, UC Davis	2012-2013

PROFESSIONAL DEVELOPMENT TEACHING/LECTURE HISTORY**National and International Venues**

LightFair International (58 presentations)	1990-2017
Prof. Lighting Design Conference (Berlin, Madrid, Copenhagen, Rome, Paris)	2009, 2011, 2013, 2015, and 2017
Professional Lighting Design (Alingsås, Copenhagen, Wismar, Venice)	2011
Pan Pacific Lighting Conference, (San Francisco)	1984, 1986, 1989
Intl. Daylighting Conference (Bilbao, Rotterdam, Lausanne, Copenhagen, London)	2007, 2009, 2011, 2013 and 2015
IALD Annual Conference	2000, 2002, 2010
IES Annual Conference	1985, 1988, 1990, 2000, 2005, 2017
International Dark Sky Association Annual Meeting	2002, 2003, 2008
AIA Annual Conference	2001, 2005, 2007
ASID Annual Conference	1985, 1986, 1989, 1990, 1994, 1998
Green Build	2002, 2003, 2007, 2008, 2009
Neocon Chicago	1998, 2002, 2009
Strategies in Light (LED and OLED conferences)	2009, 2011, 2012, 2015, 2017
LED Show	2013, 2015
LightShow West	2013, 2014, 2015
LED Specifier Summit	2013, 2014
US DOE LED/OLED Manufacturer Summit	2014
IES Airport Lighting Conference	2014

Local and Regional Venues

Flagstaff Regional Dark Sky Conference	2014
Designers Saturday, New York	1992
Lighting Academy, Southern California Edison (5 classes, multiple times)	2007-2011
AIA Professional Development Classes Presented 20 programs local level)	2001-2011
ASID Professional Development Classes presented (82 programs local level)	1983-2009
APEM Professional Development Classes presented (local level)	1985-1995
IES Regional and Sectional Meetings -75 programs	1975-2011
Professional Development Classes for Commercial Clients	1983-2011
Commercial presentation and program clients include Acuity Brands Lighting, Cooper Lighting, GE Lighting, Sylvania Lighting, Lutron Electronics, ELP Lighting, Efficiency Vermont, Southern California Edison, Pacific Gas & Electric, LA DWP, Southern California Gas Co, San Diego Gas & Electric, California Lighting Technology Center, Oklahoma Gas & Electric, Edison Electric Institute, American Lighting Association, Oregon Energy Trust. Pacific Power Company, BC Hydro, Connecticut Power and Light, Con Edison, Com Edison, Atlantic Electric, Georgia Power, Lucifer Lighting, NEEA, NEEP, CHPS, ASHRAE, Energy Center of Wisconsin, ACEEE, NRDC, Professional Lighting Design magazine, Architectural Lighting magazine, Architect magazine, AMC Trade Shows, the Atlanta Mart, the Merchandise Mart, LA Design Center, SF Mart, the Miami Merchandise Mart, Dallas Mart, Specs Retail Conference, the Electric Show, Electric West, EWEB, IIDA	
College Lectures	1983-2011
Programs include University of Oregon, Oregon State University, Mt. Hood Community College, University of Washington, University of California Davis, University of California Berkeley, Cal Poly Pomona, Cal Poly San Luis Obispo, University of California Santa Barbara, University of California San Diego, Cal State Chico, Cal State Sacramento, California Art Institute, La Canada College, UCLA, University of Nevada, Las Vegas, University of Texas, UT San Antonio, Venice School of Architecture, Hochschule Wismar, University of Montana, University of Idaho, Arizona State University, Oklahoma State University, University of Nebraska, Lawrence Technological Institute, University of Alabama, Memphis State University, Rhode Island School of Design, Louisiana Tech, University of Colorado, University of Virginia, University of Hawaii, Fashion Institute of Design, University of Vermont, University of Wisconsin, University of Minnesota, Parsons School of Design, University of Rochester, Chaminade College, Ball State University	
Papers Presentations	
IES, IALD, ASHRAE, USGBC, ACEEE, AIA, various programs.	
Internet Classes and Webinars	
Federal Energy Management Program (FEMP) Lighting Class	1997-2002
Bonneville Power ETC Program	2013
Focus on Energy Webinars (Wisconsin)	2013, 2014
IES Light Up Philadelphia Conference	2012
NECA Annual Conference, Las Vegas	2012
IES Conference Australia New Zealand, Auckland	2011
IES Conference Australia New Zealand, Queenstown, Keynote Address	2008
International Daylighting Conference, Bilbao	2007
Trade Commission of Spain, Barcelona	2005
IES Annual Conference, Keynote Address	1997

MEMBERSHIPS

Illuminating Engineering Society (IES)	1975-2017
Fellow Emeritus	2016
Board of Fellows	2003-2007
	1994-1998
Airport Lighting Committee	2014
ASHRAE AEDG Schools	2005-2007
Technical review committee	2007
Spectral effects committee	1998-2002
ASHRAE/IES90.1 representative	1992-1997
Elected Fellow	1991
Energy Management committee	1983-2008
Health Care Committee	1979-1983
Chair, annual meeting program committee	1985
Annual conference papers	1975,1983,2010
Elected member	1975
International Association of Lighting Designers (IALD)	1987-2017
Fellows Selection Committee	2010-2012
Elected Fellow	2005
Special presidential citation	2003
LightFair Management Board	2002-2004
NCQLP Board	2002-2003
Member of Board, Director of External Affairs	2002-2003
Member of Board, Director of Education	2001
LightFair Program Committee	1998-2001
Elected Professional Member	1987
International Dark Sky Association (IDA)	2001-2017
Chair, Model Lighting Ordinance Task Force	2001-2017
Chair, Technical Committee	2013-2015
Board of Directors	2001-2015
Treasurer	2008-2009
Technical Committee	2001-2012
American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)	
Member, SPC 189.1	2009-2010
Member SPC 90.1	1992-1997
AEDG Schools	2005-2007
High Efficiency Buildings Conference Paper presenter	2010, 2012
US Green Buildings Council (USGBC)	2002-2012
Institute of Electrical and Electronic Engineers (IEEE)	2005-2009
National Council on Qualifications for the Lighting Professions (NCLQP)	
Chairman, Examination Committee	2000
Chairman, Test Committee	1997-1999
Member, organizing committee	1995-1996
Lighting Certified	1998-2010
General Electric Consumer Advisory Council (GE CAC)	2001-2012
California Energy Commission (CEC)	
Advanced Lighting Professional Advisory Committee	1987-1994
Advanced Lighting Advisory Committee	1995-1998

PUBLICATIONS
Books (Author and Co-Author)

Lighting Design Basics Second Edition, Wiley	2012
Lighting Retrofits and Relighting, Wiley	2011
Lighting Design Basics Wiley	2004
Lighting Fundamentals, EPRI	1997
Lighting Retrofit Handbook, EPRI	1997
Daylighting Fundamentals, EPRI	1998
Lighting Controls: Patterns for Design, EPRI	1996

Contributing Editor and Author

Advanced Lighting Guidelines , California Energy Commission	1990,1993
Advanced Lighting Guidelines, New Buildings Institute	2001,2003,2009
Lighting Controls Patterns for Design, EPRI	1997

Author and Columnist

Architectural Lighting Magazine	1988-1992
Architectural Record Magazine	1992-1997
Architectural Lighting Magazine	2001-2012
Blog, Architectural Lighting	2008-2009
Lighting Design and Application	Centennial

Articles and papers

Architectural Lighting	55 articles and columns
Architectural Record	16 articles and columns
Progressive Architecture	1 article (1983)
Building Operating Management	3 articles
Better Bricks Website	4 articles
EC&M (McGraw Hill)	2 articles
Building Design and Construction	2 articles

Published White Papers

Lighting Calculations Using LED, Cree Website	2011
GaN on GaN LED Technology, SORAA Wesbite	2012

REGISTRATIONS AND CERTIFICATIONS

Professional Engineer, California 12078	1984-present
Professional Engineer, Michigan 24679	1977-1984
Class A Energy Auditor, Iowa	1978
Certified Lighting Efficiency Professional (CLEP)	1992-1995
Lighting Certified (NCQLP)	1998-2010

LIGHTING DESIGN AND OTHER AWARDS

2013 Edison Award for Environmental Design, REDDING SCHOOL FOR THE ARTS
 2011 Edison Award for Environmental Design, UNIVERSITY OF ARIZONA SIXTH STREET HOUSING
 2008 The Edison Award, SACRAMENTO MEMORIAL AUDITORIUM
 2008 Edison Award for Environmental Design, SACRAMENTO MEMORIAL AUDITORIUM
 2002 Edison Award for Environmental Design, LEWIS AND CLARK LAW LIBRARY
 1996 Award of Merit, IL FORNAIO PORTLAND
 1992 Award of Merit, ESPRIT DE CORP
 1989 Award of Excellence, RUSS BUILDING
 1989 Award of Excellence, BANK OF THE WEST
 1989 Award of Merit, BROWN AND BAIN
 1984 The Edison Award, FRANCO FERINI
 2008 Guth Award of Merit and Lumen Award, SIDWELL FRIENDS SCHOOL
 2003 Guth Award of Merit, WEST LINN LIBRARY
 2003 Guth Award of Merit, SYMANTEC SPRINGFIELD
 2003 Guth Award of Merit, LEWIS AND CLARK LAW LIBRARY
 2000 Guth Award of Merit, THE HOTEL PATTEE
 2000 Guth Award of Merit, THE STREET OF DREAMS
 1997 Guth Award of Merit, HARRAH'S MARDI GRAS CASINO
 1996 Guth Award of Merit, CITY OF PHOENIX STREET LIGHTING
 1995 Guth Award of Merit, PALACE CASINO
 1994 Guth Award of Merit, CITY OF MEMPHIS TROLLEY AND MAIN STREET
 1993 Guth Award of Merit, ESPRIT DE CORP
 1993 Guth Award of Merit and EPRI Efficiency Award, BEECH RESIDENCE
 1992 Guth Award of Merit, STANFORD CHILDREN'S HOSPITAL
 1991 Guth Award of Merit, WOLF RESIDENCE/MARIN DESIGNERS SHOWCASE
 1991 Guth Award of Merit, THE RESORT AT SQUAW CREEK
 1991 Guth Award of Merit, THE MARIN CIVIC CENTER
 1990 Guth Award of Merit, HILLSBOROUGH RESIDENCE
 1989 Guth Award of Merit, EMBASSY SUITES KAAHAPALI, MAUI
 1988 Award of Excellence, ST. MARY'S CATHEDRAL
 1987 Guth Award of Merit, PAN PACIFIC LIGHTING EXPOSITION
 1987 Guth Award of Merit, FRANCO FERINI
 1986 Guth Award of Merit, RESIDENCE IN MARIN
 1984 Guth Award of Merit, COMPREHENSIVE HEALTH SERVICES OF DETROIT
 1984 Guth Award of Merit, AYLAR FOR MEN
 1981 Guth Award of Merit, ATLANTA INTERNATIONAL AIRPORT
 2012 Beyond Green Honor Award - First Place for a New Academic Complex, REDDING SCHOOL FOR THE ARTS
 2012 Design Excellence Award, AIA Educational Facility Design Awards, REDDING SCHOOL FOR THE ARTS
 2011 Beyond Green Advanced Building Citation, PORTLAND COMMUNITY COLLEGE
 2011 Design Excellence Award, Community Facilities, HAVEN FOR HOPE
 2009 AIA COTE Top Ten, THE CHARTWELL SCHOOL
 2006 AIA COTE Top Ten, THE SIDWELL FRIENDS SCHOOL
 2004 IALD Presidential Special Service Citation
 2003 Better Bricks Professional Services First Runner Up

2003 IALD International Lighting Design Awards Special Citation, SYMANTEC
1998 AIA Award, Architecture+Energy Program
1995 US Department of Transportation and Endowment for the Arts
Design for Transportation Award of Merit
1994 IESNA Presidential Citation
1990 IESNA South Pacific Coast Vice-President's Award
1990 Halo/ASID First Place Commercial, BANK OF THE WEST
1980 Michigan Governor's Award
1976 Electrical Consultant Energy Efficiency Design Award

HIGH PERFORMANCE AND EFFICIENT BUILDINGS INCLUDING LEED

(3) Zero Net Energy Buildings (Fort Huachuca Colonel Smith Middle School, Redding School for the Arts, the Chartwell School)
(15) LEED Platinum Buildings
(1) WELL Platinum Building
(20) LEED Gold Buildings
(15) LEED Silver and Qualified Buildings

PATENTS

8502480 (2013) for a complex lighting control system that choreographs the lighting of environments and apparel, with emphasis on LED's.
20080005044 (2008) for an electronic signaling system to reduce power demand in buildings.

CONTACT INFORMATION

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